

# **ABSTRACT**

A blood pump having a supplemental outflow port and/or a supplemental inflow port. A supplemental outflow port can be used to supply blood to regions of the body during heart bypass operations, such as to perfuse heart tissue downstream from an anastomosis site during CABG procedures so as to reduce the damage to the heart tissue. A supplemental inflow port can be used to infuse blood and/or various other fluids or compositions into the patient's blood stream, such as may be helpful or advantageous during emergency situations in cardiac surgery.

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